## SEQUENCE LISTING

- <110> BERNSTEIN, Harold S. COUGHLIN, Shaun R.
- <120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE
   PROGRESSION
- <130> UCSF-020/02US
- <140> Not Yet Available
- <141> 2001-01-08
- <150> US 09/156,316
- <151> 1998-09-18
- <150> US 60/060,688
- <151> 1997-09-22
- <160> 46
- <170> PatentIn Ver. 2.1
- <210> 1
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- Arg Ile Ala Ser Leu Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala 35 40 45
- Arg Trp Tyr Glu Trp Leu Asp Pro Ser Ile Lys Lys Thr Glu Trp Ser 50 60
- Arg Glu Glu Glu Lys Leu Leu His Leu Ala Lys Leu Met Pro Thr
  65 70 75 80
- Gln Trp Arg Thr Ile Ala Pro Ile Ile Gly Arg Thr Ala Ala Gln Cys 85 90 95
- Leu Glu His Tyr Glu Phe Leu Leu Asp Lys Ala Ala Gln Arg Asp Asn 100 105 110
- Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile 115 120 125
- Asp Pro Asn Pro Glu Thr Lys Pro Ala Arg Pro Asp Pro Ile Asp Met 130 135 140
- Asp Glu Asp Glu Leu Glu Met Leu Ser Glu Ala Arg Ala Arg Leu Ala

145 150 155 160

Asn Thr Gln Gly Lys Lys Ala Lys Arg Lys Ala Arg Glu Lys Gln Leu
165 170 175

Glu Glu Ala Arg Arg Leu Ala Ala Leu Gln Lys Arg Arg Glu Leu Arg 180 185 190

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Asp Tyr Asn Ala Glu Ile Pro Phe Glu Lys Lys Pro Ala Leu Gly Phe 210 215 220

Tyr Asp Thr Ser Glu Glu Asn Tyr Gln Ala Leu Asp Ala Asp Phe Arg 225 230 235 240

Lys Leu Arg Gln Gln Asp Leu Asp Gly Glu Leu Arg Ser Glu Lys Glu 245 250 255

Gly Arg Asp Arg Lys Lys Asp Lys Gln His Leu Lys Arg Lys Glu 260 265 270

Ser Asp Leu Pro Ser Ala Ile Leu Gln Thr Ser Gly Val Ser Glu Phe 275 280 285

Thr Lys Lys Arg Ser Lys Leu Val Leu Pro Ala Pro Gln Ile Ser Asp 290 295 300

Ala Glu Leu Gln Glu Val Val Lys Val Gly Gln Ala Ser Glu Ile Ala 305 310 315 320

Arg Gln Thr Ala Glu Glu Ser Gly Ile Thr Asn Ser Ala Ser Ser Thr 325 330 335

Leu Leu Ser Glu Tyr Asn Val Thr Asn Asn Ser Val Ala Leu Arg Thr 340 345 350

Pro Arg Thr Pro Ala Ser Gln Asp Arg Ile Leu Gln Glu Ala Gln Asn 355 360 365

Leu Met Ala Leu Thr Asn Val Asp Thr Pro Leu Lys Gly Gly Leu Asn 370 375 380

Thr Pro Leu His Glu Ser Asp Phe Ser Gly Val Thr Pro Gln Arg Gln 385 390 395 400

Val Val Gln Thr Pro Asn Thr Val Leu Ser Thr Pro Phe Arg Thr Pro 405 410 415

Ser Asn Gly Ala Glu Gly Leu Thr Pro Arg Ser Gly Thr Thr Pro Lys
420 425 430

Pro Val Ile Asn Ser Thr Pro Gly Arg Thr Pro Leu Arg Asp Lys Leu 435 440 445

Asn Ile Asn Pro Glu Asp Gly Met Ala Asp Tyr Ser Asp Pro Ser Tyr

450 455 460

Val 465	Lys	Gln	Met	Glu	Arg 470	Glu	Ser	Arg	Glu	H1S 475	Leu	Arg	Leu	GLY	ьеи 480
Leu	Gly	Leu	Pro	Ala 485	Pro	Lys	Asn	Asp	Phe 490	Glu	Ile	Val	Leu	Pro 495	Glu
Asn	Ala	Glu	Lys 500	Glu	Leu	Glu	Glu	Arg 505	Glu	Ile	Asp	Asp	Thr 510	Tyr	Ile
Glu	Asp	Ala 515	Ala	Asp	Val	Asp	Ala 520	Arg	Lys	Gln	Ala	Ile 525	Arg	Asp	Ala
Glu	Arg 530	Val	Lys	Glu	Met	Lys 535	Arg	Met	His	Lys	Ala 540	Val	Gln	Lys	Asp
545					550		Asn			555					560
				565			Leu		570					575	
			580				His	585					590		
		595			_		Gly 600					605			
	610					615	Leu				620				
625					630		Ala			635					640
				645			Ser		650					655	
_			660				Cys	665					670		
_		675		_			Ala 680					685			
	690					695	Leu				700				
705					710		Lys			715					720
				725			Ala		730					735	
Asp	Leu	Trp	Asp 740	Gln	Ile	Glu	Gln	745					750		
~1	~1·-	T	T	T 7.50	Ui~	C111	700	C	7 1 2	TIC	Urc	Arc	Ara	1.011	(2   11

755 760 765

Cys Leu Lys Glu Asp Val Gln Arg Gln Gln Glu Arg Glu Lys Glu Leu 770 775 780

Gln His Arg Tyr Ala Asp Leu Leu Leu Glu Lys Glu Thr Leu Lys Ser 785 790 795 800

Lys Phe

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<213> Homo sapiens

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Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser Arg Ile Ala Ser Leu 20 25 30

Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp
35 40 45

Leu Asp Pro

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<213> Schizosaccharomyces pombe

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Leu Lys Gly Gly Ala Trp Lys Asn Thr Glu Asp Glu Ile Leu Lys Ala 1 5 10 15

Ala Val Ser Lys Tyr Gly Lys Asn Gln Trp Ala Arg Ile Ser Ser Leu 20 25 30

Leu Val Arg Lys Thr Pro Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp 35 40 45

Ile Asp Pro 50

<210> 4

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<213> Homo sapiens

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Val Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu

10 15 1 Val Lys Lys Tyr Gly Thr Lys Gln Trp Thr Leu Ile Ala Lys His Leu Lys Gly Arg Leu Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu 40 Asn Pro 50 <210> 5 <211> 50 <212> PRT <213> Homo sapiens <400> 5 Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Leu Ile Ala Lys His Leu 25 Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu Asn Pro 50 <210> 6 <211> 50 <212> PRT <213> Homo sapiens <400> 6 Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Val Ile Ala Lys His Leu Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu Asn Pro 50 <210> 7 <211> 123 <212> PRT <213> Homo sapiens <400> 7 Pro Leu Lys Gly Gly Leu Asn Thr Pro Leu His Glu Ser Asp Phe Ser 1 5 10 15

Gly Val Thr Pro Gln Arg Gln Val Val Gln Thr Pro Asn Thr Val Leu
20 25 30

Ser Thr Pro Phe Arg Thr Pro Ser Asn Gly Ala Glu Gly Leu Thr Pro 35 40 45

Arg Ser Gly Thr Thr Pro Lys Pro Val Ile Asn Ser Thr Pro Gly Arg

Thr Pro Leu Arg Asp Lys Leu Asn Ile Asn Pro Glu Asp Gly Met Ala 65 70 75 80

Asp Tyr Ser Asp Pro Ser Tyr Val Lys Gln Met Glu Arg Glu Ser Arg 85 90 95

Glu His Leu Arg Leu Gly Leu Leu Gly Leu Pro Ala Pro Lys Asn Asp 100 105 110

Phe Glu Ile Val Leu Pro Glu Asn Ala Glu Lys 115 120

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Ser Leu Leu Gly Gln Glu Ser Ile Pro Leu Gln Pro Gly Gly Thr Gly 20 25 30

Tyr Thr Gly Val Thr Pro Ser His Ala Ala Asn Gly Ser Ala Leu Ala 35 40 45

Ala Pro Gln Ala Thr Pro Phe Arg Thr Pro Arg Asp Thr Phe Ser Ile 50 55 60

Asn Ala Ala Glu Arg Ala Gly Arg Leu Ala Ser Glu Arg Glu Asn 65 70 75 80

Lys Ile Arg Leu Lys Ala Leu Arg Glu Leu Leu Ala Lys Leu Pro Lys 85 90 95

Pro Lys Asn Asp Tyr Glu Leu Met Glu Pro Arg

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<213> Homo sapiens

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10 15

Asn Lys Gln Asp Thr Leu Glu Leu Glu Ser Pro Ser Leu Thr Ser Thr 20 25 30

Pro Val Cys Ser Gln Lys Val Val Thr Thr Pro Leu His Arg Asp 35 40 45

Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val Thr Pro Asp Gln 50 55 60

Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr Pro Phe Lys Asn 65 70 75 80

Ala Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr Pro His Leu Glu 85 90 95

Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly Ile Glu Leu Ile 100 105 110

Ile Glu Asp Asp Ile Arg Pro 115

<210> 10

<211> 123

<212> PRT

<213> Homo sapiens

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1 5 10 15

Glu Leu Arg Asp Gly Ser Leu Asn Asp Gly Gly Asn Met Ala Leu Lys 20 25 30

His Thr Pro Leu Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Phe Asn
35 40 45

Thr Cys Pro Gly Asn Glu Gln Leu Asn Ile Glu Asn Pro Ser Phe Thr 50 55 60

Ser Thr Pro Ile Cys Gly Gln Lys Ala Leu Ile Thr Thr Pro Leu His 65 70 75 80

Lys Glu Thr Thr Pro Lys Asp Gln Lys Glu Asn Val Gly Phe Arg Thr 85 90 95

Pro Thr Ile Arg Arg Ser Ile Leu Gly Thr Pro Arg Thr Pro Thr Pro 100 105 110

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aggggggcgt atggaggaat accgaggatg aaattctgaa agcagcggta atgaaatatg 180
ggaaaaatca gtggtctagg attgcctcat tgctgcatag aaaatcagca aagcagtgca 240
aagccagatg gtatgaatgg ctggatccaa gcattaagaa gacagaatgg tccagagaag 300
aagaggaaaa actcttgcac ttggccaagt tgatgccaac tcagtggagg accattgctc 360
caatcattgg aagaacagcg gcccagtgct tagaacacta tgaatttctt ctggataaag 420
ctgcccaaag agacaatgaa gaggaaacaa cagatgatcc acgaaaactt aaacctggag 480
aaatagatcc aaatccagaa acaaaaccag cgcggcctga tccaattgat atggatgagg 540
atgaacttga gatgctttct gaagccagag cccgcttggc taatactcag ggaaagaagg 600
ccaagaqqaa aqcaaqaqa aaacaattqq aaqaaqcaaq acqtcttqct qccctccaaa 660
gagttgatta taatgccgaa atcccatttg aaaaaaagcc tgcccttggt ttttatgata 780
cttctgagga aaactaccaa gctcttgacq caqatttcag gaaattaaqa caacaqqatc 840
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aatttactaa aaagagaagc aaactagtac ttcctgcccc tcagatttca gatgcagaac 1020
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agaacctcat ggccctcacc aatgtggaca ccccattgaa aggtggactt aataccccat 1260
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ccaataattc agagcacatt acctatctgg aacataatcc ttatgaaaag ttctccaaag 1980
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tagagtgtct aaaagaagac gttcagcgac aacaagaaag agaaaaggaa cttcaacata 2460
gatatgetga tttgetgetg gagaaagaga etttaaagte aaaattetga agtacagttt 2520
atattetgte acaggattaa ttaattgeeg gtttteatae tetagaagge tgaaactgat 2580
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9

<212> PRT

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Hand the Tong of Been Second	ggtgttattg at	12
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:alis	<400> 46	
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